## SEQUENCE LISTING

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<110> Birkett, Ashley J.
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<140> 09/931,325
<141> 2001-08-16
<150> 60/225,843
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Gln Pro Gly Glu Leu
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<210> 117 <211> 28 <212> DNA <213> Hepatitis B virus	

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<211> 7
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<400> 118
Cys Pro Ala Asn Pro Pro Arg
<210> 119
<211> 31
<212> DNA
<213> Hepatitis B virus
<400> 119
                                                                    31
gcgaagctta gcaaggggca tttggtggtc t
<210> 120
<211> 7
<212> PRT
<213> Hepatitis B virus
<400> 120
Ala Asn Pro Pro Arg Tyr Ala
<210> 121
<211> 30
<212> DNA
<213> Hepatitis B virus
<400> 121
                                                                    30
gcgaagctta ggcatttggt ggtctatagc
<210> 122
<211> 8
<212> PRT
<213> Hepatitis B virus
<400> 122
Cys Ala Asn Pro Pro Arg Tyr Ala
1.
<210> 123
<211> 32
<212> DNA
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<213> Hepatitis B virus

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gcgaagctta gcaggcattt ggtggtctat aa
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  <210> 124
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  <212> PRT
  <213> Hepatitis B virus
  <400> 124
  Asn Pro Pro Arg Tyr Ala Pro
  <210> 125
  <211> 31
  <212> DNA
  <213> Hepatitis B virus
  <400> 125
                                                                      31
  cgcaagctta atttggtggt ctataagctg g
  <210> 126
  <211> 8
  <212> PRT
  <213> Plasmodium falciparum
  <400> 126
  Asn Ala Asn Pro Asn Val Asp Pro
  <210> 127
  <211> 6
  <212> PRT
  <213> Homo sapiens
  <400> 127
  Asn Tyr Lys Lys Pro Lys
<210> 128
  <211> 7
  <212> PRT
  <213> Homo sapiens
  <400> 128
  Lys Arg Gly Pro Arg Thr His
  <210> 129
  <211> 21
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<400> 123

<212> PRT

<213> Homo sapiens

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<400> 129
Leu His Pro Asp Glu Thr Lys Asn Met Leu Glu Met Ile Phe Thr Pro
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Arg Asn Ser Asp Arg
<210> 130
<211> 5
<212> PRT
<213> Human immunodeficiency virus type 1
<400> 130
Arg Ile Lys Gln Ile
 1
<210> 131
<211> 11
<212> PRT
<213> Human immunodeficiency virus type 1
Arg Ile Lys Gln Ile Gly Met Pro Gly Gly Lys
                  5
<210> 132
<211> 10
<212> PRT
<213> Human immunodeficiency virus type 1
<400> 132
Leu Leu Glu Leu Asp Lys Trp Ala Ser Leu
 1
<210> 133
<211> 14
<212> PRT
<213> Human immunodeficiency virus type 1
<400> 133
Glu Gln Glu Leu Leu Glu Leu Asp Lys Trp Ala Ser Leu Trp
1
                 5
<210> 134
<211> 33
<212> PRT
<213> Human immunodeficiency virus type 1
Val Gln Gln Asn Asn Leu Leu Arg Ala Ile Glu Ala Gln Gln His
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                                     10
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25
Leu
<210> 135
<211> 16
<212> PRT
<213> Human immunodeficiency virus type 1
<400> 135
His Leu Leu Gln Leu Thr Val Trp Gly Ile Lys Gln Leu Gln Ala Arg
<210> 136
<211> 36
<212> PRT
<213> Human immunodeficiency virus
<400> 136
Tyr Thr His Ile Ile Tyr Ser Leu Ile Glu Gln Ser Gln Asn Gln Gln
                  5
1
Glu Lys Asn Glu Gln Glu Leu Leu Ala Leu Asp Lys Trp Ala Ser Leu
                                 25
Trp Asn Trp Phe
         35
<210> 137
<211> 26
<212> PRT
<213> Human immunodeficiency virus type 1
<400> 137
Tyr Thr His Ile Ile Tyr Ser Leu Ile Glu Gln Ser Gln Asn Gln Gln
Glu Lys Asn Glu Gln Glu Leu Leu Glu Leu
             20
<210> 138
<211> 19
<212> PRT
<213> Homo sapiens
<400> 138
Gly Arg Glu Arg Arg Pro Arg Leu Ser Asp Arg Pro Gln Leu Pro Tyr
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Leu Leu Gln Leu Thr Val Trp Gly Ile Lys Gln Leu Gln Ala Arg Ile

Leu Glu Ala

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<210> 139
<211> 20
<212> PRT
<213> Homo sapiens
<400> 139
Arg Glu Gln Arg Arg Phe Ser Val Ser Thr Leu Arg Asn Leu Gly Leu
Gly Lys Lys Ser
             20
<210> 140
<211> 18
<212> PRT
<213> Plasmodium yoelii
<400> 140
Pro Asn Lys Leu Pro Arg Ser Thr Ala Val Val His Gln Leu Lys Arg
                  5
Lys His
<210> 141
<211> 11
<212> PRT
<213> Plasmodium yoelii
<400> 141
Thr Ala Val Val His Gln Leu Lys Arg Lys His
                5
<210> 142
<211> 22
<212> PRT
<213> Plasmodium vivax
<400> 142
Pro Ala Gly Asp Arg Ala Asp Gly Gln Pro Ala Gly Asp Arg Ala Ala
                                      10
Ala Gly Gln Pro Ala Gly
<210> 143
<211> 12
<212> PRT
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<213> Avian leukosis virus

<400> 143 . Asn Gln Ser Trp Thr Met Val Ser Pro Ile Asn Val <210> 144 <211> 16 <212> PRT <213> Avian leukosis virus <400> 144 Met Ile Lys Asn Gly Thr Lys Arg Thr Ala Val Thr Phe Gly Ser Val <210> 145 <211> 19 <212> PRT <213> Foot-and-mouth disease virus <400> 145 Pro Asn Leu Arg Gly Asp Leu Gln Val Leu Ala Gln Lys Val Ala Arg 10 Thr Leu Pro <210> 146 <211> 26 <212> PRT <213> Foot-and-mouth disease virus <400> 146 Arg Tyr Asn Arg Asn Ala Val Pro Asn Leu Arg Gly Asp Leu Gln Val Leu Ala Gln Lys Val Ala Arg Thr Leu Pro 20 <210> 147 <211> 34 <212> PRT <213> Hepatitis B virus <400> 147 Arg Arg Arg Gly Arg Ser Pro Arg Arg Arg Thr Pro Ser Pro Arg Arg Arg Arg Ser Gln Ser Pro Arg Arg Arg Ser Gln Ser Arg Glu Ser

Gln Cys

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<210> 148
<211> 20
<212> PRT
<213> Plasmodium falciparum
<400> 148
Glu Tyr Leu Asn Lys Ile Gln Asn Ser Leu Ser Thr Glu Trp Ser Pro
Cys Ser Val Thr
<210> 149
<211> 20
<212> PRT
<213> Plasmodium falciparum
Glu Tyr Leu Asn Lys Ile Gln Asn Ser Leu Ser Thr Glu Trp Ser Pro
                                      10
Ala Ser Val Thr
<210> 150
<211> 18
<212> PRT
<213> Plasmodium vivax
<400> 150
Asp Arg Ala Ala Gly Gln Pro Ala Gly Asp Arg Ala Asp Gly Gln Pro
Ala Gly
<210> 151
<211> 36
<212> PRT
<213> Plasmodium vivax
Ala Asn Gly Ala Gly Asn Gln Pro Gly Ala Asn Gly Ala Gly Asp Gln
Pro Gly Ala Asn Gly Ala Asp Asn Gln Pro Gly Ala Asn Gly Ala Asp
Asp Gln Pro Gly
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<210> 152
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<211> 9

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<212> PRT
<213> Plasmodium vivax
<400> 152
Asp Arg Ala Ala Gly Gln Pro Ala Gly
<210> 153
<211> 9
<212> PRT
<213> Plasmodium vivax
<400> 153
Asp Arg Ala Asp Gly Gln Pro Ala Gly
<210> 154
<211> 9
<212> PRT
<213> Plasmodium vivax
<400> 154
Ala Asn Gly Ala Gly Asn Gln Pro Gly
<210> 155
<211> 9
<212> PRT
<213> Plasmodium vivax
<400> 155
Ala Asn Gly Ala Gly Asp Gln Pro Gly
<210> 156
<211> 9
<212> PRT
<213> Plasmodium vivax
<400> 156
Ala Asn Gly Ala Asp Asn Gln Pro Gly
<210> 157
<211> 9
<212> PRT
<213> Plasmodium vivax
<400> 157
Ala Asn Gly Ala Asp Asp Gln Pro Gly
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<210> 158
<211> 11
<212> PRT
<213> Plasmodium vivax
<400> 158
Ala Pro Gly Ala Asn Gln Glu Gly Gly Ala Ala
<210> 159
<211> 21
<212> PRT
<213> Plasmodium vivax
<400> 159
Pro Ala Gly Asp Arg Ala Asp Gly Gln Pro Ala Gly Asp Arg Ala Ala
                                      10
Gly Gln Pro Ala Gly
<210> 160
<211> 18
<212> PRT
<213> Plasmodium vivax
<400> 160
Ala Asn Gly Ala Gly Asn Gln Pro Gly Ala Asn Gly Ala Gly Asp Gln
Pro Gly
<210> 161
<211> 19
<212> PRT
<213> Plasmodium vivax
<400> 161
Gln Ala Asn Gly Ala Asp Asn Gln Pro Gly Ala Asn Gly Ala Asp Asp
                                      10
Gln Pro Gly
<210> 162
<211> 44
<212> DNA
<213> Plasmodium vivax
<400> 162
                                                                    44
cgcgaattca agcgaacggc gccgataatc agccggcggg tgca
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<210> 163
<211> 22
<212> PRT
<213> Plasmodium vivax
<400> 163
Ala Pro Gly Ala Asn Gln Glu Gly Gly Ala Ala Pro Gly Ala Asn
Gln Glu Gly Gly Ala Ala
             20
<210> 164
<211> 7
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: modified
      portion of Hepatitis B core
<400> 164
Cys Val Val Thr Thr Glu Pro
<210> 165
<211> 42
<212> DNA
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: modified
      portion of Hepatitis B core
<400> 165
                                                                   42
gcaagcttac tattgaattc cgcaaacaac agtagtctcc gg
<210> 166
<211> 26
<212> PRT
<213> Artificial Sequence
<220>
<223> Description of Artificial Sequence: modified
     portion of Hepatitis B core
<400> 166
Thr Thr Val Val Gly Ile Glu Tyr Leu Asn Lys Ile Gln Asn Ser Leu
Ser Thr Glu Trp Ser Pro Cys Ser Val Thr
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<210> 167

<211> 27

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: modified portion of Hepatitis B core

<400> 167

Thr Thr Val Val Cys Gly Ile Glu Tyr Leu Asn Lys Ile Gln Asn Ser 1 5 10 15

Leu Ser Thr Glu Trp Ser Pro Ala Ser Val Thr
20 25

<210> 168

<211> 217

<212> PRT

<213> Spermophilus variegatus

<400> 168

Met Tyr Leu Phe His Leu Cys Leu Val Phe Ala Cys Val Pro Cys Pro 1 5 10 15

Thr Val Gln Ala Ser Lys Leu Cys Leu Gly Trp Leu Trp Asp Met Asp 20 25 30

Ile Asp Pro Tyr Lys Glu Phe Gly Ser Ser Tyr Gln Leu Leu Asn Phe 35 40 45

Leu Pro Leu Asp Phe Phe Pro Asp Leu Asn Ala Leu Val Asp Thr Ala
50 60

Ala Ala Leu Tyr Glu Glu Glu Leu Thr Gly Arg Glu His Cys Ser Pro 65 70 75 80

His His Thr Ala Ile Arg Gln Ala Leu Val Cys Trp Glu Glu Leu Thr 85 90 95

Arg Leu Ile Thr Trp Met Ser Glu Asn Thr Thr Glu Glu Val Arg Arg 100 105 110

Ile Ile Val Asp His Val Asn Asn Thr Trp Gly Leu Lys Val Arg Gln
115 120 125

Thr Leu Trp Phe His Leu Ser Cys Leu Thr Phe Gly Gly His Thr Val

Gln Glu Phe Leu Val Ser Phe Gly Val Trp Ile Arg Thr Pro Ala Pro 145 150 155 160

Tyr Arg Pro Pro Asn Ala Pro Ile Leu Ser Thr Leu Pro Glu His Thr 165 170 175 Val Ile Arg Arg Gly Gly Ser Arg Ala Ala Arg Ser Pro Arg Arg 180 185 190

Arg Thr Pro Ser Pro Arg Arg Arg Ser Gln Ser Pro Arg Arg Arg 195 200 205

Arg Ser Gln Ser Pro Ala Ser Asn Cys 210 215

<210> 169

<211> 651

<212> DNA

<213> Spermophilus variegatus

<400> 169

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<210> 170

<211> 183

<212> PRT

<213> Hepatitis B virus

<400> 170

Met Asp Ile Asp Pro Tyr Lys Glu Phe Gly Ala Thr Val Glu Leu Leu 1 5 10 15

Ser Phe Leu Pro Ser Asp Phe Phe Pro Ser Val Arg Asp Leu Leu Asp 20 25 30

Thr Ala Ser Ala Leu Tyr Arg Glu Ala Leu Glu Ser Pro Glu His Cys 35 40 45

Ser Pro His His Thr Ala Leu Arg Gln Ala Ile Leu Cys Trp Gly Glu 50 55 60

Leu Met Thr Leu Ala Thr Trp Val Gly Val Asn Leu Glu Asp Pro Ala 65 70 75 80

Ser Arg Asp Leu Val Val Ser Tyr Val Asn Thr Asn Met Gly Leu Lys 85 90 95

Phe Arg Gln Leu Leu Trp Phe His Ile Ser Cys Leu Thr Phe Gly Arg

Glu Thr Val Ile Glu Tyr Leu Val Ser Phe Gly Val Trp Ile Arg Thr 115 120 125 ...

Pro Pro Ala Tyr Arg Pro Pro Asn Ala Pro Ile Leu Ser Thr Leu Pro 130 135 140

Glu Thr Thr Val Val Arg Arg Gly Arg Ser Pro Arg Arg Arg Thr
145 150 155 160

Pro Ser Pro Arg Arg Arg Ser Gln Ser Pro Arg Arg Arg Ser 165 170 175

Gln Ser Arg Glu Ser Gln Cys 180

<210> 171

<211> 185

<212> PRT

<213> Hepatitis B virus

<400> 171

Met Asp Ile Asp Pro Tyr Lys Glu Phe Gly Ala Thr Val Glu Leu Leu 1 5 10 15

Ser Phe Leu Pro Ser Asp Phe Phe Pro Ser Val Arg Asp Leu Leu Asp 20 25 30

Thr Ala Ser Ala Leu Tyr Arg Glu Ala Leu Glu Ser Pro Glu His Cys 35 40 45

Ser Pro His His Thr Ala Leu Arg Gln Ala Ile Leu Cys Trp Gly Glu
50 60

Leu Met Thr Leu Ala Thr Trp Val Gly Asn Asn Leu Gln Asp Pro Ala 65 70 75 80

Ser Arg Asp Leu Val Val Asn Tyr Val Asn Thr Asn Met Gly Leu Lys 85 90 95

Ile Arg Gln Leu Leu Trp Phe His Ile Ser Cys Leu Thr Phe Gly Arg
100 105 110

Glu Thr Val Leu Glu Tyr Leu Val Ser Phe Gly Val Trp Ile Arg Thr 115 120 125

Pro Pro Ala Tyr Arg Pro Pro Asn Ala Pro Ile Leu Ser Thr Leu Pro 130 135 140

Glu Thr Thr Val Val Arg Arg Arg Asp Arg Gly Arg Ser Pro Arg Arg 145 150 155 160

Arg Thr Pro Ser Pro Arg Arg Arg Arg Ser Gln Ser Pro Arg Arg Arg 165 170 175

Arg Ser Gln Ser Arg Glu Ser Gln Cys 180 185 <210> 172

<211> 185

<212> PRT

<213> Hepatitis B virus

<400> 172

Met Asp Ile Asp Pro Tyr Lys Glu Phe Gly Ala Thr Val Glu Leu Leu 1 5 10 15

Ser Phe Leu Pro Ser Asp Phe Phe Pro Ser Val Arg Asp Leu Leu Asp 20 25 30

Thr Ala Ser Ala Leu Tyr Arg Glu Ala Leu Glu Ser Pro Glu His Cys
35 40 45

Ser Pro His His Thr Ala Leu Arg Gln Ala Ile Leu Cys Trp Gly Glu 50 60

Leu Met Thr Leu Ala Thr Trp Val Gly Asn Asn Leu Glu Asp Pro Ala 65 70 75 80

Ser Arg Asp Leu Val Val Asn Tyr Val Asn Thr Asn Val Gly Leu Lys 85 90 95

Ile Arg Gln Leu Leu Trp Phe His Ile Ser Cys Leu Thr Phe Gly Arg
100 105 110

Glu Thr Val Leu Glu Tyr Leu Val Ser Phe Gly Val Trp Ile Arg Thr
115 120 125

Pro Pro Ala Tyr Arg Pro Pro Asn Ala Pro Ile Leu Ser Thr Leu Pro 130 135 140

Glu Thr Thr Val Val Arg Arg Arg Asp Arg Gly Arg Ser Pro Arg Arg 145 150 155 160

Arg Thr Pro Ser Pro Arg Arg Pro Ser Gln Ser Pro Arg Arg Arg 165 170 175

Arg Ser Gln Ser Arg Glu Ser Gln Cys 180 185

<210> 173

<211> 183

<212> PRT

<213> Hepatitis B virus

<400> 173

Met Asp Ile Asp Pro Tyr Lys Glu Phe Gly Ala Thr Val Glu Leu Leu
1 10 15

Ser Phe Leu Pro Ser Asp Phe Phe Pro Ser Val Arg Asp Leu Leu Asp 20 25 30

Thr Ala Ala Leu Tyr Arg Asp Ala Leu Glu Ser Pro Glu His Cys 35 40 45

Ser Pro His His Thr Ala Leu Arg Gln Ala Ile Leu Cys Trp Gly Asp 50 55 60

Leu Met Thr Leu Ala Thr Trp Val Gly Thr Asn Leu Glu Asp Pro Ala 65 70 75 80

Ser Arg Asp Leu Val Val Ser Tyr Val Asn Thr Asn Val Gly Leu Lys 85 90 95

Phe Arg Gln Leu Leu Trp Phe His Ile Ser Cys Leu Thr Phe Gly Arg
100 105 110

Glu Thr Val Leu Glu Tyr Leu Val Ser Phe Gly Val Trp Ile Arg Thr 115 120 125

Pro Pro Ala Tyr Arg Pro Pro Asn Ala Pro Ile Leu Ser Thr Leu Pro 130 135 140

Glu Thr Thr Val Val Arg Arg Gly Arg Ser Pro Arg Arg Arg Thr
145 150 155 160

Pro Ser Pro Arg Arg Arg Ser Gln Ser Pro Arg Arg Arg Ser 165 170 175

Gln Ser Arg Glu Ser Gln Cys 180

<210> 174

<211> 183

<212> PRT

<213> Marmota monax

<400> 174

Met Asp Ile Asp Pro Tyr Lys Glu Phe Gly Ser Ser Tyr Gln Leu Leu 1 5 10 15

Asn Phe Leu Pro Leu Asp Phe Phe Pro Asp Leu Asn Ala Leu Val Asp 20 25 30

Thr Ala Thr Ala Leu Tyr Glu Glu Glu Leu Thr Gly Arg Glu His Cys  $35 \hspace{1cm} 40 \hspace{1cm} 45$ 

Ser Pro His His Thr Ala Ile Arg Gln Ala Leu Val Cys Trp Asp Glu 50 55 60

Leu Thr Lys Leu Ile Ala Trp Met Ser Ser Asn Ile Thr Ser Glu Gln 65 70 75 80

Val Arg Thr Ile Ile Val Asn His Val Asn Asp Thr Trp Gly Leu Lys 85 90 95

Val Arg Gln Ser Leu Trp Phe His Leu Ser Cys Leu Thr Phe Gly Gln
100 105 110

His Thr Val Gln Glu Phe Leu Val Ser Phe Gly Val Trp Ile Arg Thr Pro Ala Pro Tyr Arg Pro Pro Asn Ala Pro Ile Leu Ser Thr Leu Pro 135 Glu His Thr Val Ile Arg Arg Gly Gly Ala Arg Ala Ser Arg Ser 155 Pro Arg Arg Arg Thr Pro Ser Pro Arg Arg Arg Ser Gln Ser Pro 165 Arg Arg Arg Ser Gln Cys 180 <210> 175 <211> 549 <212> DNA <213> Hepatitis B virus <400> 175 atggacatcg accettataa agaatttgga getactgtgg agttactete gtttttgeet 60 tetgaettet tteetteagt acgagatett etagataceg ceteagetet gtategggaa 120 gccttagagt ctcctgagca ttgttcacct caccatactg cactcaggca agcaattctt 180 tqctqqqqq aactaatqac tctaqctacc tqqgtgqgtg ttaatttgga agatccagcg 240 tctagagacc tagtagtcag ttatgtcaac actaatatgg gcctaaagtt caggcaactc 300 ttgtggtttc acatttcttg tctcactttt ggaagagaaa cagttataga gtatttggtg 360 tettteggag tgtggatteg caeteeteea gettatagae caecaaatge ceetateeta 420 tcaacacttc cggagactac tgttgttaga cgacgaggca ggtcccctag aagaagaact 480 ccctcgcctc gcagacgaag gtctcaatcg ccgcgtcgca gaagatctca atctcgggaa 540 tctcaatgt <210> 176 <211> 555 <212> DNA <213> Hepatitis B virus <400> 176 atggacattg accettataa agaatttgga getactgtgg agttactete gtttttgeet 60 totgacttot ttoottoogt acgagatoto otagacacog cotcagotot gtatogagaa 120 gccttagagt ctcctgagca ttgctcacct caccatactg cactcaggca agccattctc 180 tgctgggggg aattgatgac tctagctacc tgggtgggta ataatttgca agatccagca 240 tccagagatc tagtagtcaa ttatgttaat actaacatgg gtttaaagat caggcaacta 300 ttgtggtttc atatatcttg ccttactttt ggaagagaga ctgtacttga atatttggtc 360 tettteggag tgtggatteg eacteeteea geetatagae caccaaatge eectatetta 420 tcaacacttc cggaaactac tgttgttaga cgacgggacc gaggcaggtc ccctagaaga 480 agaactccct cgcctcgcag acgcagatct caatcgccgc gtcgcagaag atctcaatct 540 555 cgggaatctc aatgt <210> 177 <211> 555 <212> DNA

<213> Hepatitis B virus

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gccttagagt ctcctgagca ttgctcacct caccatactg cactcaggca agccattctc 180
tgctgggggg aattgatgac tctagctacc tgggtgggta ataatttgga agatccagca 240
tctagggatc ttgtagtaaa ttatgttaat actaacgtgg gtttaaagat caggcaacta 300
ttgtggtttc atatatcttg ccttactttt ggaagagaga ctgtacttga atatttggtc 360
tettteggag tgtggatteg cacteeteea geetatagae caccaaatge ceetatetta 420
tcaacacttc cggaaactac tgttgttaga cgacgggacc gaggcaggtc ccctagaaga 480
agaactccct cgcctcgcag acgcagatct ccatcgccgc gtcgcagaag atctcaatct 540
cgggaatctc aatgt
<210> 178
<211> 549
<212> DNA
<213> Hepatitis B virus
<400> 178
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gccttagagt ctcctgagca ttgttcacct caccatactg cactcaggca agcaattctt 180
tgctggggag acttaatgac tctagctacc tgggtgggta ctaatttaga agatccagca 240
tctagggacc tagtagtcag ttatgtcaac actaatgtgg gcctaaagtt cagacaatta 300
ttgtggtttc acatttcttg tctcactttt ggaagagaaa cggttctaga gtatttggtg 360
tettttggag tgtggatteg caeteeteea gettatagae caecaaatge ceetateeta 420
tcaacqcttc cggagactac tgttgttaga cgacgaggca ggtcccctag aagaagaact 480
ccctcgcctc gcagacgaag atctcaatcg ccgcgtcgca gaagatctca atctcgggaa 540
                                                                   549
tctcaatgt
<210> 179
<211> 549
<212> DNA
<213> Marmota monax
<400> 179
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tetgaettet tteetteegt aegagatett etagataeeg eegeagetet gtategggat 120
gccttagagt ctcctgagca ttgttcacct caccatactg cactcaggca agcaattctt 180
tgctggggag acttaatgac tctagctacc tgggtgggta ctaatttaga agatccagca 240
tctagggacc tagtagtcag ttatgtcaac actaatgtgg gcctaaagtt cagacaatta 300
ttgtggtttc acatttcttg tctcactttt ggaagagaaa cggttctaga gtatttggtg 360
tettttggag tgtggatteg cacteeteea gettatagae caccaaatge ceetateeta 420
tcaacgette eggagaetae tgttgttaga egaegaggea ggteeeetag aagaagaaet 480
ccctcgcctc gcagacgaag atctcaatcg ccgcgtcgca gaagatctca atctcgggaa 540
tctcaatgt
<210> 180
<211> 51
<212> DNA
<213> plasmid pKK223
<400> 180
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ttcacacagg aaacagaatt cccggggatc cgtcgacctg cagccaagct t
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<210> 181
<211> 38
<212> DNA
<213> plasmid pKK223
<400> 181
ttcacataag gaggaaaaaa ccatgggatc cgaagctt
                                                                     38
<210> 182
<211> 16
<212> PRT
<213> Hepatitis B virus
<400> 182
Gly Ile Val Asn Leu Glu Asp Pro Ala Ser Arg Asp Leu Val Val Ser
                                      10
<210> 183
<211> 17
<212> PRT
<213> Hepatitis B virus
Gly Ile Val Asn Leu Glu Asp Pro Ala Ser Arg Asp Leu Val Val Ser
                                      10
Cys
<210> 184
<211> 4
<212> PRT
<213> Plasmodium falciparum
<400> 184
Asn Ala Asn Pro
  1
<210> 185
<211> 4
<212> PRT
<213> Plasmodium falciparum
<400> 185
Asn Val Asp Pro
  1
<210> 186
<211> 31
<212> DNA
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<213> Hepatitis B virus

<400> 186 gcggaattcc atcttccaaa ttaacaccca c